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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/601,246	07/31/2000	OSAMU WADA	106389	9837
25944	7590 09/10/2004		EXAMINER	
	ERRIDGE, PLC	OSORIO, RICARDO		
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
			2673	2673
			DATE MAH ED. 00/10/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/601,246	WADA ET AL.				
Office Action Summary	Examiner	Art Unit				
	RICARDO L OSORIO	2673				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mai earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be ti eply within the statutory minimum of thirty (30) da d will apply and will expire SIX (6) MONTHS fron ute. cause the application to become ABANDON!	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on _6	115/04					
2a) This action is FINAL . 2b) ⊠ Th	his action is non-final.	•				
<i>,</i>						
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1,3,5-11 and 13-18</u> is/are pending i	n the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3,5-11 and 13-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	I/or election requirement.	-				
Application Papers						
9)☐ The specification is objected to by the Exami	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bure						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summa					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/	Paper No(s)/Mail 5) Notice of Informal	Date I Patent Application (PTO-152)				
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1, 3, 5-11 and 13-18 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In claims 1, 11 and 14, in line 7, applicant added the limitation "in still images". There is no support in the specification for this limitation.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 3-11 and 13-14 are rejected under 35 U.S.C. 102(b) as being anticipated by McKnight (5,959,598).

Under claims 1, 3, 11, and 13-18, McKnight teaches of a color display device, or projector (col.

1, lines 27-43, it is inherent that a projection device needs a lens to project the image) comprising

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a color light generation unit that repetitively generates a plurality of colored lights in a time sequence with a predetermined frequency controlled by the number of the color filter rotations (col. 12, lines 22-30 and col. 18, lines 12-22); said frequency being equal to or greater than 250 Hz (col. 18, lines 12-65), said colored light generation unit comprising a light source (col. 12, lines 21-24), and a color filter that generates said plurality of colored lights from light coming from said light source (col. 18, lines 19-20); and an image generation unit that processes said plurality of colored lights so as to generate an image corresponding to each of said plurality of colored lights generated in a time sequence (Fig. 6A and col. 18, lines 22-30), said predetermined frequency being at least 180 HZ and reaching 300 HZ or higher display rates so as to reduce or eliminate color breakip caused by high speed eye movement (col. 18, lines 12-65. Note that the term high speed eye movement is overly broad).

Under claim 5, McKnight teaches of said color light generation unit comprising of light sources that emit colored lights different from each other and that turn on in a time sequence (col. 12, lines 22-51).

Under claim 6, McKnight teaches of said image generation unit being a reflection type spatial light modulator (col. 14, line 64-col. 15, line 6).

Under claim 7, McKnight teaches of said spatial light modulator being a liquid crystal device (col. 1, line 40).

Under claim 8, McKnight teaches of said image generation unit being a digital micro-mirror device (col. 1, line 37).

Under claim 9, McKnight teaches of said image generation unit being a transmission type spatial light modulator (col. 14, line 64-col. 15, line 6).

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5.

Under claim 10, McKnight teaches of a projection display system (col. 1, line 34). Although, McKnight does not precisely mention of a lens for projecting the image, it is inherent for a projection display to have a lens that is necessary to project the image into the image projection panel.

Response to Arguments

Applicant's arguments filed 7/7/2003 have been fully considered but they are not

persuasive. Applicant argues that McKnight does not disclose that the color repetition frequency is 250 HZ or more for the color light generation unit and image generation unit.

Examiner disagrees because McKnight teaches of displaying three subframes R, G and B within the duration of a single image which occurs at a rate of 180 HZ (3 times 60 HZ). When interspersing more subframes into the time allotted for the single color image, for example, six, nine or even twelve subframes, the rate increases to a much higher rate (above ordinary display

60 HZ). The criticality of increasing the rate is that of reduction of color breakup effects (see col.

rates), which is clearly higher than 300 HZ, for example, six times, nine times, or twelve times

18, lines 12-65).

Also, McKnight teaches that said predetermined frequency being at least 180 HZ and reaching 300 HZ or higher display rates so as to reduce or eliminate color breakip caused by high speed eye movement (col. 18, lines 12-65. Note that the term high speed eye movement is overly broad).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricardo L. Osorio whose telephone number is 703 305-2248. The examiner can normally be reached on Monday through Thursday from 7:00 A.M. to 5:30

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P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Bipin Shalwala whose telephone number is 703 305-4938.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

703 872-9306 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington, VA, Sixth Floor (Receptionist).

Information regarding the status of an application may be obtained from the Patent Application

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obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ricardo L. Osorio

Examiner

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RLO September 7, 2004